



Electrical Safety and Technical Training

2020 TRAINING CALENDAR



Electrical Safety in the Workplace (CSA Z462-18)



FULL-DAY COURSE

- Explain the intention of CSA Z462-18
- Explain the importance of the Ontario Electrical Safety Report
- Discuss the 2018 revisions to CSA Z462
 - » Describe the scope and application of CSA Z462
 - » Discuss reference publications and definition
 - » Discuss safety-related work practices
 - » Describe work involving electrical hazards
 - » Describe safety-related maintenance requirements

90024588	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, April 24, 2020 8:00 AM – 5:00 PM
90024644	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, July 17, 2020 8:00 AM – 5:00 PM
90024651	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, November 27, 2020 8:00 AM – 5:00 PM
90024652	Belleville – Fairfield Inn & Suites, 407 North Front St	Thursday, January 23, 2020 8:00 AM – 5:00 PM
90024639	Cambridge – Cambridge Hotel & Conference Centre, 700 Hespeler Rd	Thursday, November 5, 2020 8:00 AM – 5:00 PM
90024653	Kingston – Holiday Inn Express, 11 Benson St	Wednesday, March 4, 2020 8:00 AM – 5:00 PM
90024623	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, May 7, 2020 8:00 AM – 5:00 PM
90024634	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, December 10, 2020 8:00 AM – 5:00 PM
90024576	Markham – Monte Carlo Inn, 8900 Woodbine Av	Thursday, April 16, 2020 8:00 AM – 5:00 PM
90024577	Markham – Monte Carlo Inn, 8900 Woodbine Av	Thursday, September 10, 2020 8:00 AM – 5:00 PM
90024599	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	Thursday, January 16, 2020 8:00 AM – 5:00 PM
90024600	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	Thursday, June 4, 2020 8:00 AM – 5:00 PM

Electrical Safety in the Workplace (CSA Z462-18)

90024601	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	Thursday, November 5, 2020 8:00 AM – 5:00
90024654	Ottawa – Best Western Plus, 1876 Robertson Dr	Wednesday, April 8, 2020 8:00 AM – 5:00 PM
90024655	Ottawa – Best Western Plus, 1876 Robertson Dr	Wednesday, September 9, 2020 8:00 AM – 5:00 PM

Overview of Electrical Safety in the Workplace (CSA Z462-18)



THIS HALF-DAY OVERVIEW COURSE IS DESIGNED AS A “REFRESHER” OF THE FULL-DAY COURSE

- Identify and describe the types of electrical hazards
- Describe the key elements of an electrical safety program
- Apply risk assessment methods to real-life scenarios
- Define new terminology in CSA Z462-18

90024586	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, April 3, 2020 8:00 AM – 12:00 PM
90024642	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, July 10, 2020 8:00 AM – 12:00 PM
90024649	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, November 13, 2020 8:00 AM – 12:00 PM
90024636	Cambridge – Cambridge Hotel & Conference Centre, 700 Hespeler Rd	Thursday, April 9, 2020 8:00 AM – 12:00 PM
90024610	Hamilton – Visitors Inn, 649 Main St W	Thursday, April 16, 2020 8:00 AM – 12:00 PM
90024622	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, March 26, 2020 8:00 AM – 12:00 PM
90024628	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, September 17, 2020 8:00 AM – 12:00 PM

Overview of Electrical Safety in the Workplace (CSA Z462-18)

90024594	Markham – Monte Carlo Inn, 8900 Woodbine Av	Thursday, June 18, 2020 8:00 AM – 12:00 PM
90024609	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	Tuesday, November 17, 2020 8:00 AM – 12:00 PM
90024617	Windsor – Holiday Inn & Suites, 1855 Huron Church Rd	Thursday, January 9, 2020 8:00 AM – 12:00 PM
90024618	Windsor – Holiday Inn & Suites, 1855 Huron Church Rd	Thursday, June 11, 2020 8:00 AM – 12:00 PM

Control of Hazardous Energy



- Explain the need to control hazardous energy in the workplace
- Comprehend the OESC requirements for disconnection
- Describe the standard practices for hazard identification and risk assessment
- Recognize proper procedures for controlling hazardous energy
- Understand the consequences of improper procedures
- Plan and execute a work planning procedure to mitigate and control risk

90024587	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, May 8, 2020 1:00 PM – 5:00 PM
90024643	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, July 10, 2020 1:00 PM – 5:00 PM
90024650	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, November 13, 2020 1:00 PM – 5:00 PM
90024579	Markham – Monte Carlo Inn, 8900 Woodbine Av	Tuesday, September 22, 2020 1:00 PM – 5:00 PM

OESC 2018 – General Level 1



- Describe the new and amended requirements of the General Sections of the 2018 Ontario Electrical Safety Code effective May 16, 2019
- Apply knowledge of new and amended requirements to the design and installation of electrical equipment to ensure compliance with the 2018 OESC

90024640	Cambridge – Cambridge Hotel & Conference Centre, 700 Hespeler Rd	Thursday, November 19, 2020 8:00 AM – 12:00 PM
90024614	Hamilton – Visitors Inn, 649 Main St W	Thursday, October 15, 2020 1:00 PM – 5:00 PM
90024626	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, June 18, 2020 8:00 AM – 12:00 PM
90024632	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, November 12, 2020 8:00 AM – 12:00 PM

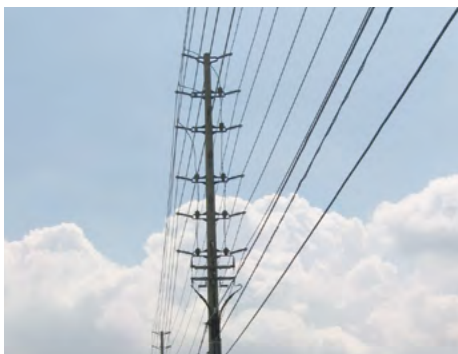
OESC 2018 – General Level 2



- Describe the new and amended requirements of the Supplementary and Amendatory Sections of the 2018 Ontario Electrical Safety Code effective May 16, 2019
- Apply knowledge of new and amended requirements to the design and installation of electrical equipment to ensure compliance with the 2018 OESC

90024661	Cambridge – Cambridge Hotel & Conference Centre, 700 Hespeler Rd	Thursday, November 19, 2020 1:00 PM – 5:00 PM
90024627	London – Best Western, Lamplighter Inn, 591 Wellington Rd S	Thursday, June 18, 2020 1:00 PM – 5:00 PM
90024633	London – Best Western, Lamplighter Inn, 591 Wellington Rd S	Thursday, November 12, 2020 1:00 PM – 5:00 PM

Powerline Safety Awareness



- Identify powerlines and the hazards
- Demonstrate knowledge of working around powerlines when operating:
 - » High reach equipment
 - » Loading and unloading of material
 - » Proper use of ladders
- Describe what to do in the event that a worker or equipment comes into contact with powerlines

90024612	Hamilton – Visitors Inn, 649 Main St W	Thursday, October 1, 2020 1:00 PM – 5:00 PM
90024621	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, March 19, 2020 1:00 PM – 5:00 PM
90024604	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	Thursday, May 28, 2020 8:00 AM – 12:00 PM

Solar Photovoltaic Systems and Ontario Electrical Safety Code Requirements



- Understand rules regarding solar photovoltaic systems and inverters
- Describe the rules associated with grounding and bonding
- Identify rules regarding A/C modules and micro-inverters

90024638	Cambridge – Cambridge Hotel & Conference Centre, 700 Hespeler Rd	Thursday, April 23, 2020 8:00 AM – 12:00 PM
90024603	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	Thursday, September 24, 2020 8:00 AM – 12:00 PM

Safety in a High Voltage Environment



- Explain the current Ontario Electrical Safety Code (OESC) requirements pertaining to high voltage installations
- Recognize the unique hazards associated with a high voltage environment
- Identify safety measures required when working in a high voltage environment

90024613	Hamilton – Visitors Inn, 649 Main St W	Thursday, October 15, 2020 8:00 AM – 12:00 PM
90024616	Hamilton – Visitors Inn, 649 Main St W	Thursday, December 3, 2020 1:00 PM – 5:00 PM
90024625	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, June 4, 2020 1:00 PM – 5:00 PM
90024631	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, October 29, 2020 1:00 PM – 5:00 PM
90024580	Markham – Monte Carlo Inn, 8900 Woodbine Av	Thursday, October 22, 2020 8:00 AM – 12:00 PM
90024605	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	Tuesday, May 12, 2020 8:00 AM – 12:00 PM

Electrical Safety Awareness I



- Describe how the Electrical Safety Authority (ESA) can help you provide a safe living and work environment for you, your family, your friends and co-workers
- Define basic electrical terminology
- Describe how to identify and avoid common electrical hazards
- Identify how electrical shocks cause injuries and death
- Discuss the legal requirements for inspection and equipment approvals

90024629	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, September 17, 2020 1:00 PM – 5:00 PM
90024593	Markham – Monte Carlo Inn, 8900 Woodbine Av	Thursday, November 26, 2020 1:00 PM – 5:00 PM
90024608	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	Thursday, April 2, 2020 1:00 PM – 5:00 PM

Maintenance of Electrical Systems – Introduction (Z463)



- Acquire a high level understanding of the benefits of an electrical maintenance program
- Explain how an electrical maintenance program contributes to workplace safety
- Demonstrate an understanding of the principles for establishing an effective maintenance program
- Assess the various maintenance strategies and their appropriate use

90024602	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	Thursday, October 15, 2020 8:00 AM – 5:00 PM
----------	--	---

Electrical Safety for Maintenance Staff



- Establish an awareness of the fundamentals of electricity and basic electrical terms
- Recognize the dangers of electricity
- Discuss the physiological effects of electricity on the body
- Explain the importance of working safely, including processes used to be safe in the workplace
- Describe the consequences of not working safely

90024589	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, May 8, 2020 8:00 AM – 12:00 PM
90024646	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, October 23, 2020 8:00 AM – 12:00 PM
90024637	Cambridge – Cambridge Hotel & Conference Centre, 700 Hespeler Rd	Thursday, April 9, 2020 1:00 PM – 5:00 PM
90024611	Hamilton – Visitors Inn, 649 Main St W	Thursday, October 1, 2020 8:00 AM – 12:00 PM
90024620	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, March 19, 2020 8:00 AM – 12:00 PM
90024578	Markham – Monte Carlo Inn, 8900 Woodbine Av	Tuesday, September 22, 2020 8:00 AM – 12:00 PM

Grounding and Bonding



- Discuss the requirements of Section 10 Grounding and Bonding of the Ontario Electrical Safety Code (OESC)
- Describe the principles of grounding and bonding
- Describe specific grounding and bonding requirements
- Review Supplemental and Amendatory Sections and Rules

90024647	Barrie – Hampton Inn & Suites, 74 Bryne Dr	Friday, October 23, 2020 1:00 PM – 5:00 PM
90024624	London – Best Western Lamplighter Inn, 591 Wellington Rd S	Thursday, June 4, 2020 8:00 AM – 12:00 PM
90024591	Markham – Monte Carlo Inn, 8900 Woodbine Av	Thursday, October 22, 2020 1:00 PM – 5:00 PM
90024606	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	Tuesday, May 12, 2020 1:00 PM – 5:00 PM

The OESC for Design Engineers



- Understand the structure and how to navigate the Ontario Electrical Safety Code (OESC)
- Understand basic calculations required by the OESC
- Gain awareness of wiring methods and how installation requirements can impact design considerations
- Describe installation requirements for electrical equipment such as capacitors, transformers, motors and lighting

90024595	Markham – Monte Carlo Inn, 8900 Woodbine Av	November 2, 3, 4, 2020 8:00 AM – 5:00 PM
----------	--	---

Pre-Master Electrician Course



- This course is designed to expand the knowledge and skills of Electricians and assist Electricians and other persons, who are qualified to be licensed (P.Eng, CET, C-Tech), in preparing to write the Master Electrician Examination
- The course is divided into 12 Modules and references specific sections of the Ontario Electrical Safety Code, other pertinent legislation, electrical calculations, and trade and business practices

90024590	Barrie – Hampton Inn & Suites, 74 Bryne Dr	May 22, 29 June 5, 12, 19, 26, 2020 8:00 AM – 5:00 PM
90024645	Barrie – Hampton Inn & Suites, 74 Bryne Dr	September 4, 11, 18, 25 October 2, 9, 2020 8:00 AM – 5:00 PM
90024658	Belleville – Fairfield Inn & Suites, 407 North Front St	April 27, 28, 29, 30 May 1, 2, 2020 8:00 AM – 5:00 PM
90024667	Cambridge – Cambridge Hotel & Conference Centre, 700 Hespeler Rd	January 18, 25 February 1, 8, 22, 29, 2020 8:00 AM – 5:00 PM
90024668	Cambridge – Cambridge Hotel & Conference Centre, 700 Hespeler Rd	April 27, 28, 29, 30 May 1, 2, 2020 8:00 AM – 5:00 PM
90024669	Cambridge – Cambridge Hotel & Conference Centre, 700 Hespeler Rd	September 28, 29, 30 October 1, 2, 3, 2020 8:00 AM – 5:00 PM
90024659	Kingston – Holiday Inn Express, 11 Benson St	September 14, 15, 16, 17, 18, 19, 2020 8:00 AM – 5:00 PM
90024635	London – Best Western Lamplighter Inn, 591 Wellington Rd S	October 17, 24, 31 November 7, 14, 21, 2020 8:00 AM – 5:00 PM
90024573	Markham – Monte Carlo Inn, 8900 Woodbine Av	February 3, 4, 5, 6, 7, 8, 2020 8:00 AM – 5:00 PM
90024575	Markham – Monte Carlo Inn, 8900 Woodbine Av	May 25, 26, 27, 28, 29, 30, 2020 8:00 AM – 5:00 PM

Pre-Master Electrician Course

90024574	Markham – Monte Carlo Inn, 8900 Woodbine Av	November 9, 10, 11, 12, 13, 14, 2020 8:00 AM – 5:00 PM
90024598	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	March 30, 31, April, 1, 2, 3, 4, 2020 8:00 AM – 5:00 PM
90024596	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	July 6, 7, 8, 9, 10, 11, 2020 8:00 AM – 5:00 PM
90024597	Mississauga – Holiday Inn & Suites, 2565 Argentia Rd	September 5, 12, 19, 26 October 10, 17, 2020 8:00 AM – 5:00 PM
90024656	Oshawa – Travelodge by Windham, 940 Champlain Av	January 27, 28, 29, 30, 31 February 1, 2020 8:00 AM – 5:00 PM
90024657	Ottawa – Best Western Plus, 1876 Robertson Rd	February 24, 25, 26, 27, 28, 29, 2020 8:00 AM – 5:00 PM
90024660	Ottawa – Best Western Plus, 1876 Robertson Rd	September 21, 22, 23, 24, 25, 26, 2020 8:00 AM – 5:00 PM
90024641	Sudbury – ESA, Northern Region Office, 2140 Regents St S Unit 15	April 24, 25, 26 May 1, 2, 3, 2020 8:00 AM – 5:00 PM
90024648	Sudbury – ESA, Northern Region Office, 2140 Regents St S Unit 15	November 6, 7, 8, 13, 14, 15, 2020 8:00 AM – 5:00 PM
90024585	Thunder Bay – Carpenters Local Training Centre, 1306 Capital Way	January 31 February 1, 2, 7, 8, 9, 2020 8:00 AM – 5:00 PM
90024619	Windsor – Holiday Inn & Suites, 1855 Huron Church Rd	October 17, 24, 31 November 7, 14, 21, 2020 8:00 AM – 5:00 PM

Distance Education Courses

OESC 2018 – Online General level 1

90023847	April 1, 2019 – March 31, 2020
90024670	April 1, 2020 – March 31, 2121

OESC 2018 – Online General level 2

90023848	April 1, 2019 – March 31, 2020
90024681	April 1, 2020 – March 31, 2121

OESC 2018 – HVAC Installations

OESC requirements for residential heating, ventilation and A/C equipment

90023849	April 1, 2019 – March 31, 2020
90024682	April 1, 2020 – March 31, 2121

Self Study Pre-Master Electrician Course

90024663	January 13 – April 6, 2020
90024665	September 14 – December 7, 2020
90024998	May 4 – July 24, 2020

REGISTRATION FEES:

Pricing in effect until March 31, 2020

Payment is required at the time of registration.

- **Half-day public courses: \$164.00*** + applicable taxes, per person
- **Full-day public courses: \$324.00*** + applicable taxes, per person
- **Electrical Safety in the Workplace full-day public course: \$449.00** + applicable taxes, per person (fee includes Z462–18 Standard).
- **An Overview of Electrical Safety in the Workplace half-day public course: \$289.00** + applicable taxes, per person (fee includes Z462–18 Standard).
- **On-site training courses** are available for **\$2,264.00*** (half-day) and **\$4,569.00*** (full-day) + applicable taxes, for up to 25 participants.
- **Pre-Master Electrician Classroom Course: \$878.00*** + applicable taxes, per person (fee includes course, Student Manual, Master Electrician Examination Reference Material and the Guideline to the Duties and Responsibilities of Licensed Electrical Contractors (LECs) and Designated Master Electricians (DMEs).

Occasionally it is necessary to add or cancel a course. Please visit the "Safety & Technical Training" section of www.esasafe.com for a complete list of current course offerings.

**In addition to the course fee a CSA National Code License Fee may apply.*

Training is a non-regulatory service offered by the Electrical Safety Authority (ESA)

For more information visit
esasafe.com/nonregulatory

FOR OFFICE USE ONLY

Sales Order:	
Billing Document:	

Electrical Safety & Technical Training REGISTRATION FORM

Mail/Fax/Email the completed form to:

ELECTRICAL SAFETY AUTHORITY

400 Sheldon Drive, Unit 1
Cambridge, Ontario N1T 2H9

Tel.: 1-877-372-7233

Fax: 1-800-667-4278

Email: esa.cambridge@electricalsafety.on.ca

**TRAINING REGISTRATION CANCELLATION/
SUBSTITUTION POLICY (IF APPLICABLE) :**

Training registration cancellation requests will be subject to a refund processing fee of \$28.00 + HST (\$31.64). Attendee substitutions will be accepted until 3:00 p.m. one business day before the course.

PRIVACY STATEMENT:

By submitting personal information to the Electrical Safety Authority, or its agents and service providers, you agree that ESA may collect, use and disclose such personal information in accordance with its privacy policy, applicable laws or pursuant to our administrative agreement with the Province of Ontario. If you provide us with the personal information on behalf of another individual, you represent that you have all necessary authority and/or have obtained all necessary consents from such individual to enable us to collect, use and disclose such personal information for the purposes set forth in our Privacy Policy. A copy of our policy is located on our website at www.esasafe.com.

PART 1: PAYMENT INFORMATION

<input type="checkbox"/> CHARGE TO ESA ACCOUNT	Provide your ESA account number _____
<input type="checkbox"/> CHEQUE / MONEY ORDER	Payable to the Electrical Safety Authority
<input type="checkbox"/> CREDIT CARD	<ul style="list-style-type: none"> • ESA Account Customer Provide the last 4 digits of the credit card saved on file with ESA _____ • One-Time / Non-Account Customer : Call 1-877-372-7233 Monday to Friday (7:00AM to 4:30PM)
Payment Amount:	+ HST (13%) = Total: \$ _____ (HST Registration Number: 87391-1424-RT-0001)

PART 2: EMPLOYER INFORMATION (COMPLETE THIS SECTION IF PAYMENT IS BEING MADE BY AN EMPLOYER)

Employer Name:	
ESA Account # (if applicable):	ESA ACP # (if applicable):
Address:	
City:	Postal Code:
Contact Name:	
Contact Title:	
Telephone #:	Fax #:
Email Address:	

PART 3: ATTENDEE INFORMATION (A REGISTRATION FORM IS REQUIRED FOR EACH ATTENDEE)

All training correspondence is mailed to the address provided below. Therefore, for privacy purposes, personal contact information is preferred.

Attendee Name:	
ESA Training Attendee # (If you do not have an ESA Training Attendee # one will be assigned to you):	
Home Mailing Address:	
City:	Postal Code:
Date of Birth (yyyy/mm/dd):	Email Address:
Home Telephone #:	Cellular #:
If you are a Licensed Master Electrician please provide your ME Licence #:	

PART 4: COURSE INFORMATION

Course ID #:	Course Location (city):
Course Name:	Course Date:
Notes: <ul style="list-style-type: none"> • Occasionally it is necessary to add or cancel a course. Please visit the "Safety & Technical Training" section of www.esasafe.com for calendar information. • Pre-Master Electrician Course registrations include the fee for the course, Student Manual and Master Electrician Examination Reference Material. 	

PART 5: CONSENT TO RELEASE STATEMENT

If an employer requires test results for their records, such information should be obtained directly from their employee. In the rare event an employer cannot obtain this information directly from their employee, the ESA will provide a value added service of issuing a duplicate copy of the test results provided the Attendee named in Part 3 of this document signs the following "Consent to Release" statement.

The ESA's Privacy and Access Code (the "Code"), which forms part of the Administrative Agreement between the ESA and the Ministry of Government and Consumer Services, prevents ESA from releasing an individual's personal information to a third party without their written consent. The Code states that personal information shall not be used or disclosed to a third party for purposes other than those for which it was collected, except with the consent of the individual to whom the information relates. As such, personal information, including but not limited to test results, cannot be disclosed to a third party irrespective of who pays the course fee.

Signing the "Consent to Release" statement is **optional** and at the Attendee's sole discretion.

I am the individual named in Part 3 of this document and hereby consent to the release of my personal information in relation to my academic achievement on the Electrical Safety Authority ("ESA") test for the course identified in Part 4 of this document. The afore-mentioned information is only to be released by the ESA, to the third party identified in Part 2 of this document.

I understand by signing this Consent to Release statement that I am agreeing to the release of the afore-mentioned information to the third party named in Part 2 of this document. I understand that I may revoke this consent at any time upon written notice to the ESA at: **Electrical Safety Authority** • Attention: Training Services, 400 Sheldon Drive, Unit 1, Cambridge, Ontario N1T 2H9

The ESA is committed to maintaining the accuracy, security and privacy of personal information in accordance with applicable Canadian privacy laws and ESA's Privacy and Access Code.

Attendee Name (Please Print Clearly): _____ Signature: _____ Date: _____